

ENGINEERING TECHNICIAN I

Engineering Technician I is the entry level position of the Engineering Technician series. Promotion to Engineering Technician II is possible after 2 ½ years as an Engineering Technician I (or less if the employee has successfully completed college-level coursework in an appropriate engineering related curriculum such as Civil Engineering Technology or has previous equivalent experience) and upon passing a promotional examination. NOTE: Knowledge of Trigonometry is essential for promotion to Engineering Technician II.

PURPOSE:

To perform a variety of engineering technician duties in one or more of the following areas: construction, transportation, environmental, traffic and water engineering.

ESSENTIAL FUNCTIONS:

An Engineering Technician I performs one or more of the following essential functions depending upon the specific position or assignment.

- ❖ Operates survey instruments to obtain angles, elevations, distances, points, and other survey information
- ❖ Takes survey notes
- ❖ Makes engineering-related mathematical computations involving algebra and geometry
- ❖ Makes precise measurements of completed construction work
- ❖ Performs manual and automated drafting work and prepares field sketches
- ❖ Prepares charts, maps, graphs and drawings
- ❖ Collects and transports various environmental samples and performs tests as required
- ❖ Collects, analyzes and records data for various purposes
- ❖ Installs, monitors and maintains various samplers, recorders and gauges
- ❖ Communicates with the public by telephone and/or in person
- ❖ Performs other essential functions as required

REQUIREMENTS:

1. Successful completion of 2 semesters of **algebra** AND 2 semesters of **geometry** (of at least high school level).
 - NOTE: Full time work experience closely related to this position may substitute for the required coursework as follows: one year of experience equals two semesters of coursework.
2. Residency in the City of Milwaukee within six months of appointment.
3. Valid driver's license at time of appointment.

DESIRABLE:

- Coursework in Civil Engineering Technology.
- Graduation from high school or successful completion of high school equivalency or G.E.D. test.